

03-29-01

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PTO/SB/05 (08-00)

Approved for use through 10/31/2002. OMB 0651-0032

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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**UTILITY PATENT APPLICATION TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. IN-0012-3First Named Inventor or Application Identifier Shalon et al.Title Capillary Printing Systems**EL071088663US**Express Mail Label No. EL071088663USJc996 U.S. PTO  
09/819172

03/27/01

**ADDRESS TO:** Assistant Commissioner for Patents  
Box Patent Application  
Washington, D. C. 20231

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

1.   X   \*Fee Transmittal Form  
(Submit an original, and a duplicate for fee processing)
2.        Applicant claims small entity status (see 37 CFR 1.27)
3.   X   Specification (Total Pages   18  )  
(preferred arrangement set forth below)
  - Descriptive Title of the Invention
  - Cross References to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claims
  - Abstract of the Disclosure
4.   X   Drawings(s) (35 USC 113) (Total Sheets   9  )
5.   X   Oath or Declaration (Total Pages   2  )
  - a.        Newly Executed (Original or Copy)
  - b.   X   Copy from a Prior Application (37 CFR 1.63(d))  
(for Continuation/Divisional with Box 17 completed)
  - i.        DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6.        Application Data Sheet. See 37 CFR 1.76
7.        CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8.        Nucleotide and/or Amino Acid Sequence Submission

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(if applicable, all necessary)

- a. ☐ Computer Readable Form (CRF)  
b. ☐ Specification Sequence Listing on: i. ☐ CD-ROM or CD-R (2 copies); or ii. ☐ paper  
c. ☐ Statement verifying identity of above copies  
d. ☐ Request to use CRF from another application

### ACCOMPANYING APPLICATION PARTS

9. ☒ Assignment Papers (cover sheet & documents(s))  
10. ☐ 37 CFR 3.73(b) Statement (where there is an assignee)  
    ☐ Power of Attorney  
11. ☐ English Translation Document (if applicable)  
12. ☒ a. Information Disclosure Statement (IDS)/PTO-1449  
    ☐ b. Copies of IDS Citations  
13. ☒ Preliminary Amendment (Transmittal)  
14. ☒ Return Receipt Postcard (MPEP 503) (Should be specifically itemized)  
15. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)  
16. ☐ Other: \_\_\_\_\_

### 17. Priority

This application claims priority to prior application No: 09/150,502

Prior application information: Examiner Ludlow, J. Group Art Unit 1743

The entire disclosure of the prior application, from which an oath or declaration is supplied under 5b, is considered a part of the disclosure of the accompanying application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

### 18. Correspondence Address

☒ Customer Number or Bar Code Label



(Insert Customer No. or Attach Bar Code Label here)

or

☒ Correspondence Address Below

PATENT TRADEMARK OFFICE

NAME Richard Aron Osman

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Name: Richard Aron Osman Registration No: 36,627

Signature: [Signature] Date: March 27, 2001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Shalon et al.

Group Art Unit: 1743

Serial No. Not yet assigned

Examiner: Ludlow, Jan

Filed: Herewith

Attorney Docket No. IN-0012-3

For: *Capillary Printing Systems*

This application claims priority to USSN  
09/150,502, filed September 9, 1998.



TRANSMITTAL

The Commissioner for Patents  
Washington D.C. 20231

Dear Commissioner,

✓ This is a divisional application of pending Serial No. 09/150,502, filed September 9, 1998 and having the same title and inventors. The specification is identical to that of the priority application except that three minor amendments made to the priority Specification on Aug 10, 2000 have been incorporated, as have a new set of claims. This specification contains no new matter.

The pending claims relate to an open capillary printing system for printing on a substrate, wherein the system includes a detachable gang of printing devices, wherein each of the printing devices comprises a reservoir containing a different, predetermined agent unique to the reservoir and in fluid connection with the reservoir, a capillary having proximal and distal openings open to ambient pressure and a printing tip comprising the distal opening and which prints the agent on the substrate, the gang comprises a nozzle surface from which protrudes a plurality of nozzles, each having a proximal and a distal end, wherein the distal end comprises the printing tip, and the system prints by decelerating the capillaries to move the agent through the bores, out the tips and onto the substrate; see, e.g. original claim 4 of the priority application.

The Examiner is invited to call the undersigned if she would like to amend the claims to clarify the foregoing or seeks further clarification of the claim language.

Respectfully submitted,  
SCIENCE & TECHNOLOGY LAW GROUP

Richard Aron Osman, Ph.D., #36,627  
Tel(650)343-4341; Fax(650) 343-4342

TELETYPE UNIT

**FEE TRANSMITTAL FOR FY 2001**

Fees are subject to annual revision

**TOTAL AMOUNT OF PAYMENT (\$)** \$1,092.00**Complete if Known:**Application No. Not yet assignedFiling Date HerewithFirst Named Inventor Shalon et al.Group Art Unit 1743Examiner Name Ludlow, J.Attorney Docket No. IN-0012-31c996 U.S. PTO  
09/819172

03/27/01

**METHOD OF PAYMENT (check one)**1. ☒ The Commissioner is hereby authorized to charge indicated fees to:☒ Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17 and credit any over payments to:☐ Applicant claims small entity status. See 37 CFR 1.27Deposit Account Number 19-0750Deposit Account Name Science & Technology Law Group2. ☒ Payment Enclosed☒ Check☐ Money Order☐ Other**FEE CALCULATION**1. **BASIC FILING FEE**

Large Entity		Small Entity		Fee Description	Fee Paid
Code	Fee (\$)	Code	Fee (\$)		
101	710	201	355	Utility application filing fee	<u>710.</u>
106	320	206	160	Design application filing fee	<u>          </u>
107	490	207	245	Plant filing fee	<u>          </u>
108	710	208	355	Reissue filing fee	<u>          </u>
114	150	214	75	Provisional application filing fee	<u>          </u>
SUBTOTAL (1)					\$ <u>          </u>

2. **CLAIMS**

			Extra		Fee from below		Fee Paid
Total Claims	<u>39</u>	- 20 =	<u>19</u>	X	<u>18.</u>	=	<u>342.00</u>
Independent Claims	<u>1</u>	- 3 =	<u>0</u>	X	<u>          </u>	=	<u>0</u>
Multiple Dependent Claims			<u>0</u>	X	<u>          </u>	=	<u>0</u>

Large Entity		Small Entity		Fee Description	Fee Paid
Code	Fee (\$)	Code	Fee (\$)		
103	18	203	9	Claims in excess of twenty	<u>342.00</u>
102	80	202	40	Independent claims in excess of 3	<u>          </u>
104	270	204	135	Multiple dependent claim	<u>          </u>
109	80	209	40	Reissue independent claims over original patent	<u>          </u>
110	18	210	9	Reissue claims in excess of 20 and over original patent	<u>          </u>
SUBTOTAL (2)					\$ <u>342.00</u>

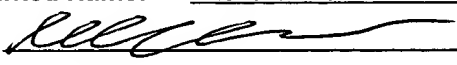
**FEE CALCULATION (c ntinu d)**
**3. ADDITIONAL FEES**

<u>Large Entity</u>		<u>Small Entity</u>		<u>Fee Description</u>	<u>Fee Paid</u>
<u>F e</u>	<u>Fee</u>	<u>Fee</u>	<u>Fee</u>		
<u>Code</u>	<u>(\$)</u>	<u>Code</u>	<u>(\$)</u>		
105	130	205	65	Surcharge - late filing fee or oath	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for response within first month	
116	390	216	195	Extension for response within second month	
117	890	217	445	Extension for response within third month	
118	1,390	218	695	Extension for response within fourth month	
128	1,890	228	945	Extension for response within fifth month	
119	310	219	155	Notice of Appeal	
120	310	220	155	Filing a brief in support of an appeal	
121	270	221	135	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive unavoidably abandoned application	
141	1,240	241	620	Petition to revive unintentionally abandoned application	
142	1,240	242	620	Utility issue fee (or reissue)	
143	440	243	220	Design issue fee	
144	600	244	300	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Petitions related to provisional applications	
126	240	126	240	Submission of Information Disclosure Stmt	
581	40	581	40	Recording each patent assignment per property (times number of properties)	40.00
146	710	246	355	For filing a submission after final rejection (see 37 CFR 1.129(a))	
149	710	249	355	For each additional invention to be examined (see 37 CFR 1.129(a))	
Other fee (specify) _____					
Other fee (specify) _____					

**SUBTOTAL (3) \$ 40.00**

\*Reduced by Basic Filing Fee Paid

**SUBMITTED BY:**

Typed or Printed Name: Richard Aron Osman  
 Signature  Date March 27, 2001  
 Reg. Number 36,627 Deposit Account User ID \_\_\_\_\_  
 (complete if applicable)